**Martin Schleiff**

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**Information Security Architect:**

Influential information security architect pursuing new I&AM challenges. I’ve secured Boeing’s remote access with multi-factor authentication, replaced windows passwords with smart cards, raised identity assurance for customer and supply chain users, created secure network enclaves to host authentication systems, and designed/built and operated identity management systems – let’s explore what I can do for you.

I’m seeking Professional Services opportunities with companies that might not be able to employ a permanent full-time information security architect.

**AREAS OF EXPERTISE:**

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| --- | --- | --- | --- |
|  | * Multi-factor Authentication
* Authorization Management
* Smart Cards
 | * Public Key Infrastructures
* One-Time Password Systems
* Federation (SAML/OAuth/OIDC)
 | * Federation (SAML/OAuth/OIDC)
* Threat Modeling
* Security Assessments
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**PROFESSIONAL EXPERIENCE:**

Chief Techlosopher - Techlosophy.com; LLC – (2021)

* Developer of Data Flow Diagramming software
* Professional Services for Online Security
* Programmable Voice Analyst (telephone-enabled applications)

Identity & Access Management Architect – The Boeing Company – Information Security (2017 – 2020)

* Architect for multi-factor authentication for DFARS compliance for access to the Boeing network.
* Curator for Boeing’s *Access Control Strategic Roadmaps* (Identification, Authentication, Authorization)
* Introduced federated ABAC capabilities to the Boeing network by designing enhancements across Boeing’s proprietary reverse proxy, authorization web service, AviationID.com, and PingFederate.
* Internal evangelist for *AviationID.com* (an IDaaS) and *Common Authorization Management* (multi-tenant delegated authorization management). [Www.MyBoeingFleet.com](http://Www.MyBoeingFleet.com) (Boeing’s customer portal), [www.myMRJfleet.com](http://www.myMRJfleet.com) (MITAC’s customer portal for the Mitsubishi Regional Jet), and soon more companies will utilize these services for customer I&AM.
* Security Architect for Boeing’s *Global Service Engagement Platform* (GSEP) based on Boeing integration with Service Now for and expanding suite of services including HR, Event Management, Discovery.

Chief Architect for Identity & Access Management - The Boeing Company – CAS-IT (2013 – 2017)

* Determined I&AM strategy for customer-facing websites of Boeing and its commercial subsidiaries.
* Defined I&AM Reference Model for Boeing Commercial Airplane Services (CAS).
* Created reference architecture for federation of native mobile applications utilizing OpenID Connect.
* Developed strategy for end-user I&AM in *Digital Aviation Azure* in Microsoft Azure.
* Architected identity federation services for single sign-on, authentication, multi-factor authentication, and authorization management for customer-facing websites of The Boeing Company and its subsidiaries.
* Achieved necessary leadership buy-in for multi-million dollar development effort, and deployment of internet-scale I&AM service called *AviationID.com*.
* Provided design oversight to contracted developers and architects (Exostar, LLC.) of *AviationID.com*.
* Supervised Boeing designers and developers of *Common Authorization Management* (CAM) service.
* Conducted threat modelling exercises to assess risks and determine appropriate mitigations.
* Technical mentoring and knowledge transfer to develop others’ I&AM architectural capabilities.

Cyber Identity Specialist – The Boeing Company – Information Security (2000 – 2013)

* Secure Token System Architect – Designed Boeing’s one-time-password management and verification system, including RADIUS and LDAP Bind authentication, integration with Thales HSM, and OATH initialization process.
* Network Architect – Designed Boeing’s *Security Assurance Category 4* (SAC4) network enclaves, including zero client terminals, VMWare VMs, routers, switches, VLANs, and physical lock management.
* Secure Badge System Architect – Designed Boeing’s smart card management portal and integration with BellID, enabling Boeing’s multi-factor authentication for VPN access, Windows logon, and web SSO.
* Virtual Directory Solution Architect – Utilized OctetString (later Oracle) to integrate Sun LDAP, OpenLDAP, UnboundID, and Windows Active Directory to provide a cohesive view to dispersed directory data.
* Consulted with developers of many in-house applications to assist with LDAP-enabling their applications to integrate with LDAP directories, including Microsoft Active Directory.
* Threat Modeling – Teamed with six others to develop Boeing’s proprietary threat modeling methodology.
* Strategy & Roadmap – Authored Boeing’s *Authentication Roadmap* and *Directory Roadmap*, including goals strategies, tactics, and needed projects.

Directory Services Product Manager – The Boeing Company – Shared Services Group (1990 – 2000)

* X.500 & LDAP Directory – Transitioned Boeing Research & Technology’s DEC X.500 directory and LDAP gateway into a production service, replaced with Control Data X.500, replaced with Netscape LDAP directory (retiring LDAP gateway), all without impacting reliant applications.
* Designed and developed Boeing’s meta-directory (based on Oracle and Pro\*C), aggregating user data from corporate and subsidiaries’ HR, email, finance, facilities, and telephone systems. This system still manages Boeing’s employee ID (BEMSID) and *@boeing.com* email addresses.

System Analyst – The Boeing Company – Boeing Computer Services (1987 – 1990)

* Technical support for DEC All-In-One office suite.
* Oracle DBA - Installed and supported Oracle for Reserve Components Automation System (RCAS) competitive demonstration (won a 12 year $1.6 billion contract).

Software System Engineer – Motorola Computer Systems (1982 – 1987)

* Supported marketing team as Marketing Technical Support Analyst (two yrs).
* Supported customers as Post-Sales Customer Support Analyst (two yrs).
* Resolved escalated problems as Senior District Software Support Specialist (one yr).

**EDUCATION, CERTIFICATIONS, PATENTS, INDUSTRY INVOLVEMENT:**

* BS Business Management (Operations Research emphasis) - Brigham Young University, Provo, UT (1982)
* Associate Technical Fellow – Boeing Technical Fellowship (1998 - present)
* CISSP - (ISC)2 Certified Information System Security Professional (2002 – 2020 - expired)
* United States Patent No. 10637868 – Common Authorization Management Svc (filed 2016; granted 2020)
* United States Patent No. 10158490 – Elevated Assurance Double Signature (filed 2015; granted 2018)
* United States Patent No. 9602529 – System Threat Modeling and Analysis (filed 2013; granted 2017)
* United States Patent No. 9607458 – Identity Lock (filed 2013; granted 2017)
* Boeing Invention Disclosure – Sticky Note Affinity Tool (patent pending; filed 2012)
* Former board member of the Network Applications Consortium (2003-2005)